	Application No.	Applicant(s)
Notice of Allowability	10/766,951	TAKEOKA ET AL.
	Examiner	Art Unit
	Nadeem Iqbal	2114
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to Jan 30, 2004.	ars on the cover sheet with the OR REMAINS) CLOSED in this for other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due course. THIS
2. ☑ The allowed claim(s) is/are <u>1-20</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority unapplication.</li> <li>All b) ☐ Some* c) ☐ None of the:         <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> </ol>	been received. been received in Application No. uments have been received in th of this communication to file a rep	is national stage application from the
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give:</li> </ol>	ted. Note the attached EXAMINE s reason(s) why the oath or decla	ER'S AMENDMENT or NOTICE OF aration is deficient.
5. CORRECTED DRAWINGS ( as "replacement sheets") must	be submitted.	
(a) including changes required by the Notice of Draftsperso	on's Patent Drawing Review (PT	O-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>		
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the draw e header according to 37 CFR 1.12	wings in the front (not the back) of 1(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F</li> </ol>	it of BIOLOGICAL MATERIAL OR THE DEPOSIT OF BIOLOG	_ must be submitted. Note the ICAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Information	Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summa	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date <u>Jan 30, 04</u></li> </ol>	Paper No./Mail D i), 7. ☐ Examiner's Amen	dment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stater 9. □ Other	ment of Reasons for Allowance
		NADEEM IQBAL PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) Art Unit: 2114

## REASONS FOR ALLOWANCE

The following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record teach a method and apparatus for determining quality metrics associated with a test pattern used to test an integrated circuit. Metrics are formulated for the test of each individual delay fault, and these individual metrics are collected into respective IC-wide metrics. The key metrics, both at the individual fault level and the IC level referred as the Delay defect exposure and the delay sensitivity ratio. For both metrics, the delay time relative to the appropriate system clock associated with a longest sensitizable path through the IC that includes the fault site is determined as well as the delay time relative to the same system clock of the actual path activated by the test pattern. Rearick et al., U.S. Patent No. 6,708,139 is one such example of prior art. The prior arts of record, however, fails to teach, singly or in combination, evaluating a delay fault test quality by a method that comprises a deciding unit that decide whether or not a test can be performed for each delay fault selected by a delay fault selecting unit and calculating a delay fault coverage by using the number of the delay faults decided to be untestable by the deciding unit. The subject matter sought to be patented as recited in the claims in this application has practical applications in the field of delay fault testing of a semiconductor circuit.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadeem Iqbal whose telephone number is (703)-308-5228. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W Beausoliel can be reached on (703)-305-9713. The fax phone number for the organization where this application or proceeding is assigned is (703)-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-30673900.

Nadeem Iqbal Primary Examiner Art Unit 2114

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